CAMERA
SYSTEMS_

MOOG

EXO™
Corrosion Resistant Camera
High Definition Camera Systems For Harsh Environments

The EXO Corrosion Resistant High Definition (HD) Network Camera System is the professional's choice for capturing brilliant, 1080P full HD video in areas of extreme corrosion, including applications in food, pharmaceutical, marine, coastal and petrochemical environments. The EXO Corrosion Resistant series, constructed of high-grade 316L Stainless Steel and available in both pressurized and non-pressurized models, is built tough to withstand extreme temperature ranges, power surges, heavy impacts and contamination from debris, chemicals and water.

Available Features

- HD 1080P
- H.264 High Profile, MJPEG compression
- Manufactured with high-grade 316L SS
- 20x & 30x optical zoom models
- 30x zoom models have image stabilization
- Day / Night with auto IR-cut filter, Wide Dynamic Range
- ONVIF, PSIA (Milestone, ONSSI), and GENETEC API, supported
- Meets NEMA 4X and NEMA TS2 standards
- Micro-SD / SDHC / SDXC / support
- Video motion detection
- Audio synchronization
- Temperature range: -58ºF to 140ºF (-50°C to 60°C), up to 165ºF (74ºC) (Per NEMA TS2)
- Proprietary surge protection (Ethernet, power and alarm / data wires)
- IP67 (IP68 on Pressurized Models)
- Optional stainless steel wall mount

MADE IN USA
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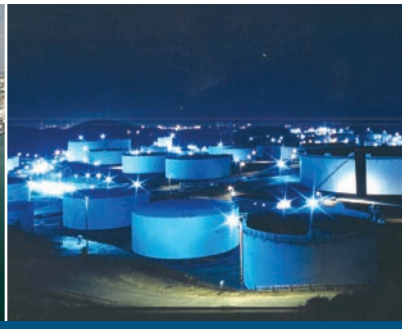
EXO SERIES



EXO™ Corrosion Resistant Camera

MADE IN USA
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EXO Corrosion Resistant

Constructed of 316L Stainless Steel and a special Nylon blend optically clear lower dome, with superior chemical, stress, and scratch resistance, the EXO Corrosion Resistant Camera is designed to protect video surveillance equipment in harsh and corrosive environments. The EXO Corrosion Resistant Camera System is the ideal solution for marine, medical, pharmaceutical, oil / gas processing, food processing, transportation and other harsh environments.

Accessory:

WM10SS
Stainless steel wall mount

Models:

EXSS7C2-2
20x optical zoom, Pendant mount with sunshield

EXSS7C2-3
30x optical zoom, Image Stabilization, Pendant mount with sunshield

EXSP7C2-2
20x optical zoom, Pressurized, Pendant mount with sunshield

EXSP7C2-3
30x optical zoom, Image Stabilization, Pressurized, Pendant mount with sunshield

Camera Specifications

	20x	30x
Image Sensor:	1/2.8-type Exmor CMOS	
Lens / Digital Zoom:	20x Optical Zoom,f=4.7mm (wide) to 94.0mm (tele), F1.6 to F3.5, 12x (240x with optical zoom)	30x Optical Zoom,f=4.6mm (wide) to 138.0mm (tele), F1.6 to F4.7, 12x (360x with optical zoom)
Minimum Illumination:	0.5 lx (F1.6, 50 IRE, High Sensitivity Mode On) 0.095 lx (F1.6, 50IRE, High Sensitivity Mode On, ICR Mode On)	
Shutter Speed:	Automatic or user selectable	
Selectable Shutter Speeds:	1/1 to 1/10,000s, 22 steps	
Pan/Tilt/Zoom:	Pan: 360° continous rotation; Tilt: 0° to 95° above horizon; Speed: 0.5°-80°/sec manual operation, 120°/sec preset	
Horizontal Viewing Angle:	55.4º (wide end) to 2.9º (tele end)	59.5º (wide end) to 2.1º (tele end)
Image Stabilization:	No	Yes
Maximum Lens Aperture:	Minimum of f/1.6 (wide) to f/3.5 (tele)	Minimum of f/1.6 (wide) to f/4.7 (tele)

Video Specifications

Video Compression:	H.264 High, Main and Baseline profiles Motion JPEG
Resolutions:	H.264: 1920x1080, 1280x720, 640x360, H.264 or Motion JPEG: 640x360, 4CIF, VGA, 2CIF, CIF
Frame Rate:	Up to HD 1080p @ 30 fps720p @ 60fps
Video Streaming:	User selectable (1) H.264 and (1) H.264 or MJPEG
Image Settings:	Wide dynamic range (WDR), manual shutter time, compression, color, brightness, sharpness, white balance, exposure control, exposure zones, backlight compensation, fine tuning of behavior at low light, rotation, text and image overlay, privacy masks, image freeze on PTZ
Data Rate:	Variable Bit Rate, Motion adaptive variable bit rate and Constant Bit Rate modes. 64 kbps – 6 Mbps per channel (requires less than 1 Mbps @ 4CIF/30fps)

Electrical Specifications

Alarm Inputs / Output:	1 Alarm input
Power Input / Input Voltage:	24Vac, 80W
Surge Protection:	Proprietary two (2) stage surge protection (3 year warranty)
Audio Streaming:	Two-way: Uncompressed PCM High-fidelity AAC-LC G.711
Audio Input / Output:	Single analog audio input; Single analog audio output (External Microphone and Speaker required)
Connectors:	RJ45 for 10BASE-T/100BASE-TX, Pheonix style connectors for AC/DC power, 4 configurable alarm inputs / outputs, mic in, line mono input, line mono output to active speaker

System Integration Specifications

Application Programming Interface:	GENETEC API, PSIA (Milestone, ONSSI), ONVIF
Event Triggers:	Video motion detection, memory card full
Event Actions:	Video recording to edge storage

Protocols Specifications

Networking:	IPv4/v6, UDP, TCP, IGMP, ICMP, ARP, DHCP, DNS
Streaming:	RTP, HTTP
Management:	RTSP, HTTP, HTTPS, Bonjour, NTP, Telnet, SNMP
Security:	Password protection, HTTPS encryption, digest authentication, user access log
System Administration:	Web GUI interface (HTTP or HTTPS)
Access Control:	SSL, Basic and Digest Authentication
Audio / Video Buffering:	Recorded ASF files to micro-SD medium
Long Term System Configuration Memory:	System configuration stored on internal flash
Software Update:	Fault-tolerant, remote accessible
Alarm Events:	Triggered by external input
Network:	Standard 10/100 Base-T Ethernet port
Edge Recording:	One (1) micro-SD / SDHC / SDXC interface (2-32GB Sold Seperatly, class 6 or above micro SD card)

Environmental Specifications

Humidity:	0-100% N.C per MIL-E-5400T, paragraphs 3.2.24.4
Impact Rating:	IK-10
Ingress Protection Rating:	IP67 (IP68 on Pressurized models)
Temperature:	-58ºF to 140ºF (-50°C to 60°C), up to 165ºF (74ºC) Per NEMA TS2
Maximum Windload:	150mph (240kph)
Vibration:	Conforms to NEMA TS2, para 2.1.9

General Specifications

Housing Style:	316L strainless steel
Dome:	OptiClear special Nylon blend
Mounting Style:	Pendant mount
Mouting Pattern:	Pendant: 1.5"npt
Schraeder Valve (pressurized model):	Nitrogen input
Pressure Relief Valve (pressurized model):	5-7 psi
Net Weight:	16 lb (7.4 Kg)
Dimensions:	14.3" x 11.3" x 11.3" (364 x 288 x 288mm)
Warranty:	3 years, including surge protection

Regulatory and Certifications

ONVIF Member · CE · REACH · NEMA Rating · RoHS · UL Listed · WEEE

MOOG

Sensor and Surveillance Systems

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